

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in this application.

**Listing of Claims:**

1. (currently amended): An unused skin dressing, comprising  
a first dressing component carrying immobilized oxidoreductase enzyme in  
dried condition; and  
a second dressing component carrying a source of water,  
said first and second dressing components being separated from each other so that  
there is no fluid communication therebetween prior to use of said dressing, the  
dressing including a source of substrate for the enzyme, the second dressing  
component being for location on the skin of a patient with the first dressing  
component thereabove with the first and second dressing components in fluid  
communication with each other when the dressing is in use, such that, water  
migrates from the second dressing component towards the first dressing component  
and acts to hydrate enzyme carried by the first dressing component, at least at the  
surface of the first dressing component, with the enzyme acting to catalyze  
conversion of atmospheric oxygen to hydrogen peroxide for transport through the  
dressing to the skin for conversion to oxygen.
2. (currently amended): A-The dressing according to claim 1, wherein the  
oxidoreductase enzyme comprises glucose oxidase.
3. (canceled)
4. (currently amended): A-The dressing according to claim 1, wherein the substrate  
is present in the second dressing component.
5. (currently amended): A-The dressing according to claim 1, including a supply of  
iodide ions.
6. (currently amended): A-The dressing according to claim 1, wherein the first  
dressing component and second dressing component are in the form of layers.

7. (currently amended): A-The dressing according to claim 1, wherein the first dressing component comprises a support or carrier carrying the immobilized oxidoreductase enzyme.
8. (currently amended): A-The dressing according to claim 7, wherein the support or carrier comprises dried hydrogel material.
9. (currently amended): A-The dressing according to claim 8, wherein the hydrogel comprises hydrophilic polymer material.
10. (currently amended): A-The dressing according to claim 9, wherein the polymer comprises poly(-2-acrylamido-2-methylpropane sulphonic acid) and/or salts thereof.
11. (currently amended): A-The dressing according to claim 9 or 10, wherein the hydrophilic polymer material is present at a concentration of at least 1% by weight based on the total weight of the gel.
12. (currently amended): A-The dressing according to claim 1, wherein the second dressing component comprises a support or carrier carrying water.
13. (currently amended): A-The dressing according to claim 12, wherein the second dressing component comprises a hydrated hydrogel.
14. (currently amended): A-The dressing according to claim 13, wherein the hydrated hydrogel comprises poly(-2-acrylamido-2-methylpropane sulphonic acid) and/or salts thereof.
15. (currently amended): A-The dressing according to claim 14, wherein the second dressing component comprises a hydrated hydrogel comprising 20% by weight of poly(-2-acrylamido-2-methylpropane sulphonic acid) and/or a salt or salts thereof.
16. (currently amended): A-The dressing according to claim 13, 14 or 15, wherein the hydrated hydrogel contains at least 30% by weight water.
17. (currently amended): A-The dressing according to claim 15, wherein the hydrated hydrogel contains about 60% by weight of water.

18. (currently amended): A-The dressing according to claim 1, wherein the first and second dressing components both include gel supports comprising the same polymer.

19-20. (canceled)

21. (currently amended): A-The dressing according to claim 1, wherein the first dressing component includes monomers that are identical or similar to monomers from which a polymeric support of the second dressing component is formed.

22. (currently amended): A-The dressing according to claim 1, wherein the first dressing component includes one or more hydration enhancers.

23. (currently amended): A-The dressing according to claim 22, wherein the hydration enhancer is selected from dried sugars, glycerol and sorbitol.

24. (currently amended): A-The dressing according to claim 1, wherein the first dressing component comprises a support of dried hydrogel formed from 10% by weight poly(-2-acrylamido-2-methylpropane sulphonic acid) and/or a salt or salts thereof, carrying enzyme, and the second dressing component comprises a support of hydrated hydrogel comprising 20% by weight of poly(-2-acrylamido-2-methylpropane sulphonic acid) and/or a salt or salts thereof.

25. (currently amended): A-The dressing according to claim 1, wherein the first and/or second dressing component includes one or more moisturiser materials.

26. (currently amended): A-The dressing according to claim 1, including a covering or outer layer for adhering the dressing to the skin of a human or animal subject.

27. (currently amended): A-The dressing according to claim 1, wherein the first and second dressing components are in separate sealed packages.

28. (withdrawn): A method of treating the skin of a human or animal using a skin dressing comprising  
a first dressing component carrying immobilized oxidoreductase enzyme in dried condition, and

a second dressing component including a source of water, the dressing including a source of substrate for the enzyme, the method comprising placing the second dressing component on a region of skin to be treated, and placing the first dressing component on the second dressing component with the first and second dressing components in fluid communication with each other such that water migrates from the second dressing component towards the first dressing component and acts to hydrate enzyme carried by the first component, at least at the surface of the first component.

- | 29. (currently amended): A-The dressing according to claim 11 wherein the concentration of the hydrophilic polymer material is at least 5% by weight based on the total weight of the gel.
- | 30. (currently amended): A-The dressing according to claim 11 wherein the concentration of the hydrophilic polymer material is at least 10% by weight based on the total weight of the gel.
- | 31. (currently amended): A-The dressing according to claim 23 wherein the dried sugar is selected from the group consisting of sucrose and trehalose.